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Serial 10/625,852  
Supplemental Amendment  
In Reply to Office Action dated May 3, 2004

R E M A R K S

Further to the June 9, 2004 Amendment, the attention of Examiner Hartmann is directed to the following.

Applicant has ordered and examined the official prosecution history of three(3) of Applicant's patents discussed in the third paragraph on page 8 of the June 9, 2004 Amendment, and during the June 7, 2004 personal interview at the Patent Office; namely,

U.S. Patent No. 5,061,172 to Fennessy, Sr.;

U.S. Patent No. 5,219,511 to Fennessy, Sr.; and

U.S. Patent No. Des. 338,817 to Fennessy, Sr.

Applicant was able to locate an English language Abstract of JP 50-22072, as discussed with Examiner Hartmann during the June 7, 2004 personal interview, for example. That English language Abstract is attached.

The provision this English language Abstract, in addition to the fact that JP 50-22072, as wells as JP 50-22073, were cited in one or more of Applicant's above-identified earlier patents should now suffice so that Examiner Hartmann considers both the timely submitted Japanese references; i.e. JP 50-22072 and JP 50-22073.

Accordingly, Examiner Hartmann is requested to either list both Japanese references on his own PTO-892 or indicate on Applicant's timely filed PTO-1449 that the Examiner has now

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considered both of those two(2) Japanese references, and provide Applicant with an initial and dated copy of the same indicating such.


Each of previously submitted claims 1, 3-8 and 19-25 remains in condition for allowance, an early action to that and is respectfully requested.

It is believed that no fee is due. Should that determination be incorrect, however, the Examiner is hereby authorized to charge any deficiencies to our Deposit Account No. 19-2105, and notify the undersigned in due course.

Should any outstanding formal matters or other issues remain, Examiner Hartmann is requested to telephone Terrence Brown at (703) 684-5600 to resolve such.

Respectfully submitted,

Date: June 15, 2004

  
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⑤ Int. Cl.

B 29 H 21/02  
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② 日本分類

25(7) B 0  
25(5) A 3

⑨ 日本国特許庁

① 特許出願公告

昭50-22072

# 特許公報

④ 公告 昭和50年(1975) 7月 28日

庁内整理番号 6542-37

発明の数 1

(全 4 頁)

JAPAN  
GROUP. 322  
CLASS. 323  
RECORDED

56502W/34 A32 P78 MIUA 26.09.69  
MITSUBOSHI BELTING KK 26.09.69-JA-076675 (28.07.75) 829h-21/02 844c-01/24  
Transferring patterns, impressions etc. - onto rubber or synthetic resin surfaces

All-B11, All-C4A.

2 372

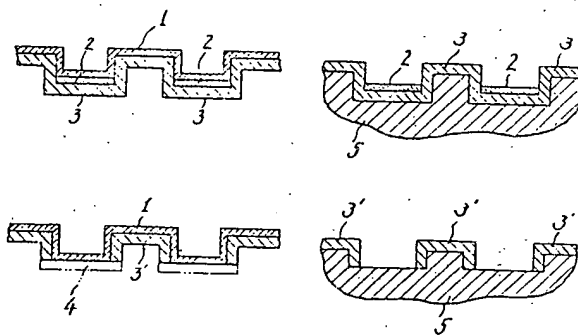
In a variant of the above procedure, the step of applying ink to the top surface of the convex parts may be omitted. (4 pp.)

A method for transferring marks, impressions, patterns, etc. onto a surface of an article of rubber or synthetic resin having rubbery elasticity comprises moulding the marks, impressions or patterns to be transferred in a convex form on a sheet-like substrate consisting of a metal or synthetic resin by use of a press. Ink with a suitable colour is then applied to the top surface of the convex parts, an ink with a different colour from that of the top surface of the convex parts and that of a product being then applied to the other parts of the substrate so as to form a thin coating on the substrate. The coated surface is applied to the surface of the product and pressure and heat are applied to cross-link or cure the product and at the same time bond the thin coating. The substrate is then peeled off.

## USES/ADVANTAGES:

Marks and the like can be efficiently transferred onto a surface of a product at low cost.

## DETAIL



第3図および第4図は本発明方法の実施による

一の転写された製品の部分断面図、第5図は本発明方法を実施したV型ベルトの一部を拡大して示す斜視図である。

## 発明の詳細な説明

本発明はゴム又はゴム状弾性を有する合成樹脂の表面に任意のマーク・模様を凹状に現示せしめるマーク等の転写法に関するものである。

従来高分子物例えばゴム製品又は合成樹脂製品の表面に任意の模様又はマークを現示せしめる方法として(1)製品の表面に顔料又は染料を含むインクで任意模様を印刷する方法、(2)薄いセロファン又は合成樹脂シート等に模様・マークを印刷し製品の架橋又は加硫時に表面に転写せしめる方法、(3)薄い金属板を模様部分が凹状になる如く成型しその凹部底面に印刷インク等を塗付し乾燥して皮膜を形成しそのまゝ被着面に押圧して加硫架橋により接着1体とする方法 (4)前記(3)の模様部分を凸起状に成型した薄い金属板をそのまゝ被着面に押圧する。

方法等が公知の手段として挙げられる。

前記(1)(2)項は何れもその模様は被着面に平滑に現示されるが、製品によつて例えばゴムロール

模様等を転写せしめた部分が容易に摩滅したり又マーク等が消失することなく製品表面に長期間鮮明なマーク地として維持せしめることが可能なマーク等の転写法を提供するものである。

更に本発明は2色模様も転写できてしかも該被着面を使用面とした場合にも有効かつ安価にして能率的な転写法を提供するものである。

しかして本発明方法の特徴とする処は金属又は合成樹脂よりなる薄板状基材をプレスによる絞り加工により転写しようとするマーク表示、模様等を凸状に成型し該凸起部頂面に適宜色のインクを着層し、又は着層することなく、かつ基材の前記凸起部頂面以外の部分には前記凸起部頂面の色ならびに製品表面地色と夫々異なる色のインクを着層して基材面に薄塗膜を形成せしめ該塗付面を製品表面に当接し加圧加熱せしめて製品の架橋又は加硫と同時に前記薄塗膜を接着せしめ次いで前記基材を剥離せしめて製品表面にマーク等を凹形に現示する点にある。

以下本発明方法を添附図面を参照しつつその具体的実施例につき記述すると第1図に示す如くアルミニウム箔(厚さ0.15%)の平板に公知のブ